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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/800,926	03/15/2004		William E. Marshall	P01936US06	9570
22885	7590	04/13/2006		EXAMINER	
•		ES & SEASE, P.L.	ZEMAN, ROBERT A		
801 GRAND AVENUE SUITE 3200 DES MOINES, IA 50309-2721				ART UNIT	PAPER NUMBER
				1645	
				DATE MAILED: 04/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

* *		Application No.	Applicant(s)				
		10/800,926	MARSHALL, WILLIAM E.				
	Office Action Summary	Examiner	Art Unit				
		Robert A. Zeman	1645				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
′=	Responsive to communication(s) filed on <u>25 Ja</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims							
 4) ☐ Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) 7-32 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 and 6 is/are rejected. 7) ☐ Claim(s) 5 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 							
Applicati	on Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 15 March 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority (ınder 35 U.S.C. § 119		1				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 3-15-2004.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Information Disclosure Statement

The Information Disclosure Statement filed on 3-15-2004 has been considered. An initialed copy is attached hereto. However, not all of the cited references were available and hence were not considered. Said references will be considered as they become available.

Election/Restrictions

Applicant's election with traverse of Group I in the reply filed on 1-25-2006 is acknowledged. The traversal is on the ground(s) that the methods and compositions of claims 1-32 are all related and as such do not require separate searches. Moreover, Applicant argues that the classification was improper. This is not found persuasive because the searches required for the various groups would not be coextensive in scope and as such would constitute a serious burden. Moreover, the classification of Group III is not germane to restriction requirement as classification was not a basis for said restriction requirement.

The requirement is still deemed proper and is therefore made FINAL.

Claims 1-32 are pending. Claims 7-32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Claims 1-6 are currently under examination.

Priority

Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c) is acknowledged. Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. [1] as follows:

The later-filed application must be an application for a patent for an invention which is also disclosed in the prior application (the parent or original nonprovisional application or provisional application). The disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See *Transco Products, Inc. v. Performance Contracting, Inc.*, 38 F.3d 551, 32 USPQ2d 1077 (Fed. Cir. 1994).

The disclosure of the prior-filed application, Application No. 09/883,550, fails to provide adequate support or enablement in the manner provided by the first paragraph of 35 U.S.C. 112 for one or more claims of this application. Said prior-filed application does not disclose oligoribonucleotides (ORN) with a molecular weight less than 10 kDa generally, or with the sequences set forth in SEQ ID NO:1-3, specifically. Consequently, the filing date of the instant application (3-15-2004) will be used for prior art purposes.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re*

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Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-3 and 6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 19-21 of copending Application No. 11/284,517. Although the conflicting claims are not identical, they are not patentably distinct from each other because both claim sets are drawn to oligoribonucleotides (ORN) from bacteria with a molecular weight less than 10kDa. Moreover, both claim sets encompass ORNs that are 1-30 nucleotides in length (see SEQ ID NO:1-3 of the instant application and claims 19-20 of the copending application).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Said claim is rendered vague and indefinite the phrase "the ORN consists of signature

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sequences as defined in the definitions and only found in microbes as defined in the definitions". It is unclear what is meant by said term as the specification provides no listing of said "signature sequences". The same is true for any listing of sequences found only in microbes.

Claim 5 is rendered vague and indefinite by the use of the phrase "consisting of a base sequence selected from the group consisting of ...". It is unclear whether the claim language is meant to be open or closed with regard to the sequence of the oligoribonucleotide. "Consisting of" suggests the language is closed while the term "base sequence" suggests that the claimed sequences contains more than the recited base sequence.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Krieg et al. (WO 01/22972).

Krieg et al. disclose immunostimulatory nucleic acids (see abstract). Moreover, Krieg et al. disclose that said nucleic acids have the same stimulatory effects as bacterial proteins (see page 1, lines 13-15). Finally, Krieg et al. disclose an oligoribonucleotide with an identical sequence to SEQ ID NO:3 (for example) [see SEQ ID NO:391]. Although Krieg et al. disclose the same product they do not disclose the claimed method of making (i.e. that the oligoribonucleotides are bacterial in origin). However, it should be noted that the instant claims constitute Product-by-Process type claims. In Product-by-Process type claims, the process of

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producing the product is given no patentable weight since it does not impart novelty to a product when the product is taught by the prior art. See *In re Thorpe*, 227 USPQ 964 (CAFC 1985); *In re Marosi*, 218 USPQ 289, 292-293 (CAFC 1983) and *In re Brown*, 173 USPQ 685 (CCPA 1972). Consequently, even if a particular process used to prepare a product is novel and unobvious over the prior art, the product *per se*, even when limited to the particular process, is unpatentable over the same product taught in by the prior art. See *In re King*, 107 F.2d 618, 620, 43 USPQ 400, 402 (CCPA 1939); *In re Merz*, 97 F.2d 599, 601, 38 USPQ 143-145 (CCPA 1938); *In re Bergy*, 563 F.2d 1031, 1035, 195 USPQ 344, 348 (CCPA 1977) *vacated* 438 US 902 (1978); and *United States v. Ciba-Geigy Corp.*, 508 F. Supp. 1157, 1171, 211 USPQ 529, 543 (DNJ 1979). Finally, since the Patent Office does not have the facilities for examining and comparing Applicant's composition with the compositions of the prior art reference, the burden is upon Applicant to show a distinction between the material, structural and functional characteristics of the claimed composition and the composition of the prior art. See *In re Best*, It should be noted that the CpG motif disclosed by Krieg et al. is deemed to the "signature sequence" recited in claim 6.

Claims 1-4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Krieg et al. (U.S. Patent 6,239,116).

Krieg et al. disclose immunostimulatory nucleic acids (see column 6, lines 1-9).

Moreover, Krieg et al. disclose an oligoribonucleotide with an identical sequence to SEQ ID NO:1 (for example) [see SEQ ID NO:60]. Although Krieg et al. disclose the same product they do not disclose the claimed method of making (i.e. that the oligoribonucleotides are bacterial in origin). However, it should be noted that the instant claims constitute Product-by-Process type

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claims. In Product-by-Process type claims, the process of producing the product is given no patentable weight since it does not impart novelty to a product when the product is taught by the prior art. See In re Thorpe, 227 USPQ 964 (CAFC 1985); In re Marosi, 218 USPQ 289, 292-293 (CAFC 1983) and In re Brown, 173 USPQ 685 (CCPA 1972). Consequently, even if a particular process used to prepare a product is novel and unobvious over the prior art, the product per se, even when limited to the particular process, is unpatentable over the same product taught in by the prior art. See In re King, 107 F.2d 618, 620, 43 USPQ 400, 402 (CCPA 1939); In re Merz, 97 F.2d 599, 601, 38 USPO 143-145 (CCPA 1938); In re Bergy, 563 F.2d 1031, 1035, 195 USPO 344, 348 (CCPA 1977) vacated 438 US 902 (1978); and United States v. Ciba-Geigy Corp., 508 F. Supp. 1157, 1171, 211 USPQ 529, 543 (DNJ 1979). Finally, since the Patent Office does not have the facilities for examining and comparing Applicant's composition with the compositions of the prior art reference, the burden is upon Applicant to show a distinction between the material, structural and functional characteristics of the claimed composition and the composition of the prior art. See In re Best. It should be noted that the CpG motif disclosed by Krieg et al. is deemed to the "signature sequence" recited in claim 6.

Claims 1-4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Schwartz et al. (WO 98/37919).

Schwartz et al. disclose immunostimulatory nucleic acids (see abstract). Moreover, Schwartz et al. disclose an oligoribonucleotide with an identical sequence to SEQ ID NO:3 (for example) [see SEQ ID NO:68]. Although Schwartz et al. disclose the same product they do not

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disclose the claimed method of making (i.e. that the oligoribonucleotides are bacterial in origin). However, it should be noted that the instant claims constitute Product-by-Process type claims. In Product-by-Process type claims, the process of producing the product is given no patentable weight since it does not impart novelty to a product when the product is taught by the prior art. See In re Thorpe, 227 USPQ 964 (CAFC 1985); In re Marosi, 218 USPQ 289, 292-293 (CAFC 1983) and In re Brown, 173 USPO 685 (CCPA 1972). Consequently, even if a particular process used to prepare a product is novel and unobvious over the prior art, the product per se, even when limited to the particular process, is unpatentable over the same product taught in by the prior art. See In re King, 107 F.2d 618, 620, 43 USPQ 400, 402 (CCPA 1939); In re Merz, 97 F.2d 599, 601, 38 USPQ 143-145 (CCPA 1938); In re Bergy, 563 F.2d 1031, 1035, 195 USPQ 344, 348 (CCPA 1977) vacated 438 US 902 (1978); and United States v. Ciba-Geigy Corp., 508 F. Supp. 1157, 1171, 211 USPO 529, 543 (DNJ 1979). Finally, since the Patent Office does not have the facilities for examining and comparing Applicant's composition with the compositions of the prior art reference, the burden is upon Applicant to show a distinction between the material, structural and functional characteristics of the claimed composition and the composition of the prior art. See In re Best, It should be noted that the CpG motif disclosed by Krieg et al. is deemed to the "signature sequence" recited in claim 6.

Conclusion

No claim is allowed.

Claim 5 is objected to as being dependent on a rejected claim. Said claim would be allowable if presented in independent form.

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SEQ ID NO:1-3 are free of the art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Zeman whose telephone number is (571) 272-0866. The examiner can normally be reached on Monday- Thursday, 7am -5:30 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette Smith can be reached on (571) 272-0864. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ROBERT ZEMAN PATENT EXAMINER

April 11, 2006